

FO9020" 52500650

Figure 1(a)

	1	90
J96	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC45	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCAATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
B217	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACAGCTATCCCTATTGGCGGTGGCAGCGCTAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
DS17	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCAATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
B212	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC42	(1)	TTGCGCTGTAAAAACCGCCAAATGGCACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC56	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
B210	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
B203	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCAATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC58	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCAATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC60	(1)	TTGCGCTGTAAAAACCGCCAAATGGCACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC61	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC80	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC95	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCAATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC62	(1)	ATCGCTGTAAAAACCGCCAAATGGCACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
B238	(1)	TTGCGCTGTAAAAACCGCCAAATGGCACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
B240	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
B242	(1)	TTTGGCTGTAAAAACCGCCAAATGGCACCGCTATCCCTATTGGCGGTGGCAGCGCCAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG
EC189	(1)	TTGCGCTGTAAAAACCGCCAAATGGTACCGCTATCCCTATTGGCGGTGGCAGCGCTAATGTTTATGTAAACCTTTGCGCCCGTCGTGAATGTG



Figure 1(b)

	91	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	180
J96	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC45	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
B217	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
DS17	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
B212	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC42	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC56	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
B210	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
B203	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC58	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC60	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC61	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC80	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC95	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC62	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
B238	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
B240	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
B242	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	
EC189	(91)	GGGCAAAAACCTGGTCGTGGATCTTTTCGACGCAAAATCTTTTGCCATAACGATTATCCGGAAACCATTTACAGACTATGTCACTGCAACCGA	

APPROVED	BY	
CLASS	SUBCLASS	
DRAFTSMAN		

Figure 1(c)

270

181

J96 (181) GGCTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC45 (181) GGTCGGCTTATGGCGGCGTGTATCTAGTTTTCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

B217 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

DS17 (181) GGTCGGCTTATGGCGGCGTGTATCTAGTTTTCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

B212 (181) GGTCGGCTTATGGCGGCGTGTATCTAGTTTTCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC42 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC56 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

B210 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

B203 (181) GGTCGGCTTATGGCGGCGTGTATCTAGTTTTCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC58 (181) GGTCGGCTTATGGCGGCGTGTATCTAGTTTTCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC60 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC61 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC80 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC95 (181) GGTCGGCTTATGGCGGCGTGTATCTAGTTTTCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC62 (181) GGTCGGCTTATGGCGGCGTGTATCTCAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

B238 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

B240 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

B242 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

EC189 (181) GGTCGGCTTATGGCGGCGTGTATCTAAATTTTCCGGGACCGTAAATATAGTGGCAGTAGCTATCCATTTTCTTACCAACGCGGAAACG

APPROVED	BY	DATE	SUBCLASS

Figure 1(d)

271 360

J96 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC45 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

B217 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

DS17 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

B212 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC42 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC56 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

B210 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

B203 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC58 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC60 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC61 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC80 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC95 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC62 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

B238 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

B240 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

B242 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

EC189 (271) CCGCGGTTGTTTATAATTCGAGAACCGATAAGCCGTGGCCGGTGGCGCTTTATTTTGA CGCCTGTGAGCAGTGC GGGCGGGGTGGCGATT

FO3040" 52500660

APPROVED	BY	CLASS	SUBCLASS

Figure 1(e)

361 451

J96 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC45 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

B217 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

DS17 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

B212 (361) AAAGCAGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC42 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC56 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

B210 (361) AAAGCAGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

B203 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC58 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC60 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC61 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC80 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC95 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC62 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

B238 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

B240 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

B242 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

EC189 (361) AAAGCTGGCTCATTAATTGCGTGTCTTAATTTTGGGACAGACCAACAACTATAACAGCGATGATTTCCAGTTTGTGTGGAATATTTACGCC

T09020" S2500660

Figure 1(f)

540

(451) AATAATGATGTGGTGGTCCCTACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCCA  
J96 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
EC45 (451) AATAATGATGTGGTGGTCCCTACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCCA  
B217 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
DS17 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
B212 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
EC42 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCCA  
EC56 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
B210 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
B203 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
EC58 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
EC60 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
EC61 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCCA  
EC80 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCCA  
EC95 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
EC62 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
B238 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCG  
B240 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCCA  
B242 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCCA  
EC189 (451) AATAATGATGTGGTGGTCCCACTGGCGGCTGCGATGTTTCTGCTCGTGATGTCAACGTTACTCTGCCGGACTACCCCTGGTTTCAGTGCCCA

FO9020" 52500660

Figure 1(g)

630

541

J96 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC45 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

B217 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

DS17 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

B212 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC42 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC56 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

B210 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

B203 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC58 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC60 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC61 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC80 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC95 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC62 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

B238 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

B240 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

B242 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

EC189 (541) ATTCCCTTTACCGTTTATTGTGCGAAAGCCAAAACCTGGGGTATTACCTCTCCGGCACAAACCGCAGATGCGGGCAAACCTCGATTTTCACC

Figure 1(h)

720

631

J96 (631) AATACCGCGTCGTTTTTCACTGCA CAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC45 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

B217 (631) AATACCGCGTCGTTTTTCA CAGCGCAGGGCGTCGGCGTTCAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

DS17 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

B212 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC42 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC56 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

B210 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

B203 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC58 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC60 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC61 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC80 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC95 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC62 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

B238 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

B240 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

B242 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA

EC189 (631) AATACCGCGTCGTTTTTCA CCGCGCAGGGCGTCGGCGTACAGTTGACGCGCAACGGTACGATTATTCAGCGGAATAACACGGTATCGTTA



Figure 1(i)

721 810

J96 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC45 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
B217 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
DS17 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
B212 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC42 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC56 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
B210 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
B203 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC58 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC60 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC61 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC80 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC95 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC62 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
B238 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
B240 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
B242 (721) GGAGCAGTAGGGACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGAGGGCAGGTGACTGACGGGAATGTGCAATCG  
EC189 (721) GGAA CAGTAGGAACTTTCGGCGGTGAGTCTGGGATTAACGGCAAATTAATGCAAGTACCGGCGGGCAGGTGACTGACGGGAATGTGCAATCG

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Figure 1(j)

		811		837
J96	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC45	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
B217	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
DS17	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
B212	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC42	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC56	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
B210	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
B203	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC58	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC60	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC61	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC80	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC95	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC62	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
B238	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
B240	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
B242	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		
EC189	(811)	ATTATTGGCGTGACTTTTGTATTATCAA		

Figure 2(a)

	1	50
B210.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
B212.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
B217.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
B223.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
B228.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
B238.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAIAVNVGQNLVVDLSTQIFCHNDYPE
B240.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
B242.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQTFCHNDYPE
DS17.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC42.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC45.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC56.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
EC58.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC60.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
EC61.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC62.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC80.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC89.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
EC95.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
G189.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
J96.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPVNVGQNLVVDLSTQIFCHNDYPE
NU14.aa	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE
Consensus	(1)	FACKTANGTAIPIGGGSANVYVNLAPAVNVGQNLVVDLSTQIFCHNDYPE

	51	100
B210.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGIVKYSGSSYPFPTTSETPRVVYNSRTD
B212.aa	(51)	TITDYVTLQRGSAYGGVLSFSFGIVKYNSSYPFPTTSETPRVVYNSRTD
B217.aa	(51)	TITDYVTLQRGAAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
B223.aa	(51)	TITDYVTLQRGAAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
B228.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
B238.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
B240.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
B242.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
DS17.aa	(51)	TITDYVTLQRGSAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
EC42.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
EC45.aa	(51)	TITDYVTLQRGAAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
EC56.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
EC58.aa	(51)	TITDYVTLQRGSAYGVLSSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
EC60.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
EC61.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
EC62.aa	(51)	TITDYVTLQRGSAYGGVLSHFSFGTVKYSGSSYPFPTTSETPRVVYNSRTD
EC80.aa	(51)	TITDYVTLQRGSAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
EC89.aa	(51)	TITDYVTLQRGSAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
EC95.aa	(51)	TITDYVTLQRGSAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
G189.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
J96.aa	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD
NU14.aa	(51)	TITDYVTLQRGAAYGGVLSFSFGTVKYNSSYPFPTTSETPRVVYNSRTD
Consensus	(51)	TITDYVTLQRGSAYGGVLSNFSGTVKYSGSSYPFPTTSETPRVVYNSRTD

Figure 2(b)

	101	150
B210.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
B212.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
B217.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
B223.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
B228.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
B238.aa	(101)	KPWPVALYLTTPVSSAGGVVIAKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
B240.aa	(101)	KPWPVALYLTTPVSSAGGLVIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
B242.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
DS17.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
EC42.aa	(101)	KPWPVALYLTTPVSSAGGVVIAKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
EC45.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
EC56.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
EC58.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
EC60.aa	(101)	KPWPVALYLTTPVSSAGGVVIAKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
EC61.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
EC62.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLMAVLILRQTNNYNSDDFQFVWNIYA
EC80.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
EC89.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
EC95.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
G189.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTKNYNSDDFQFVWNIYA
J96.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
NU14.aa	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA
Consensus	(101)	KPWPVALYLTTPVSSAGGVAIKAGSLIAVLILRQTNNYNSDDFQFVWNIYA

	151	200
B210.aa	(151)	NNDVVVPTGGCDASARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
B212.aa	(151)	NNDVVVPTGGCDASARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
B217.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
B223.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
B228.aa	(151)	NNDVVVPTGGCDVSAHDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
B238.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
B240.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
B242.aa	(151)	NNDVVVPTGGCDVSAHDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
DS17.aa	(151)	NNDVVVPTGGCDASARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
EC42.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYPGSVPIPLTVYCAKSQNLGYLLSGT
EC45.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYPGSVPIPLTVYCAKSQNLGYLLSGT
EC56.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYPGSVPIPLTVYCAKSQNLGYLLSGT
EC58.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
EC60.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
EC61.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
EC62.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
EC80.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
EC89.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
EC95.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
G189.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
J96.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYPGSVPIPLTVYCAKSQNLGYLLSGT
NU14.aa	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT
Consensus	(151)	NNDVVVPTGGCDVSARDVTVTLPDYRGSVPIPLTVYCAKSQNLGYLLSGT

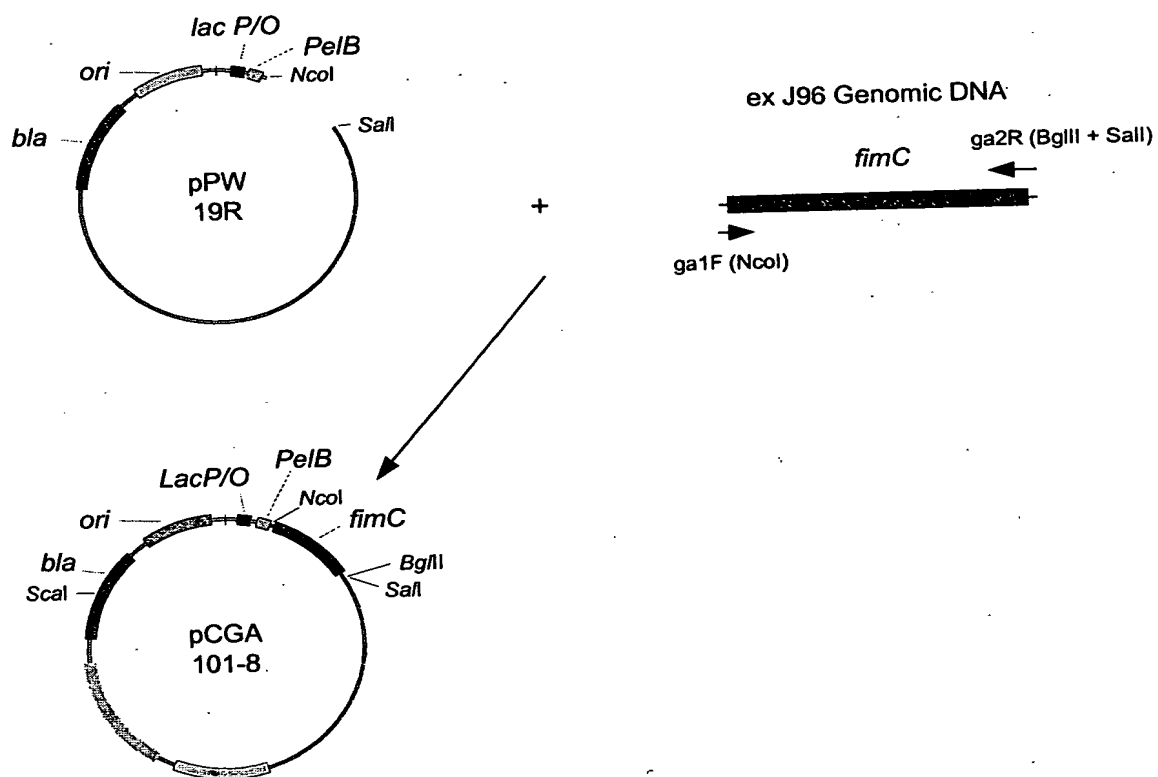
Figure 2(c)

		201	250
B210.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLARNGTVIPANNTVSLGAVGTSAVSL	
B212.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
B217.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
B223.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
B228.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
B238.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
B240.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIPTNNTVSLGAVGTSAVSL	
B242.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
DS17.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
EC42.aa	(201)	TADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
EC45.aa	(201)	TADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
EC56.aa	(201)	TADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
EC58.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
EC60.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
EC61.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
EC62.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTINPANNTVSLGAVGTSAVSL	
EC80.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTANGTIVPANNTVSLGAVGTSAVSL	
EC89.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTANGTIVPANNTVSLGAVGTSAVSL	
EC95.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
G189.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGTVGTSAVSL	
J96.aa	(201)	TADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
NU14.aa	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	
Consensus	(201)	HADAGNSIFTNTASFSPAQGVGVQLTRNGTIIIPANNTVSLGAVGTSAVSL	

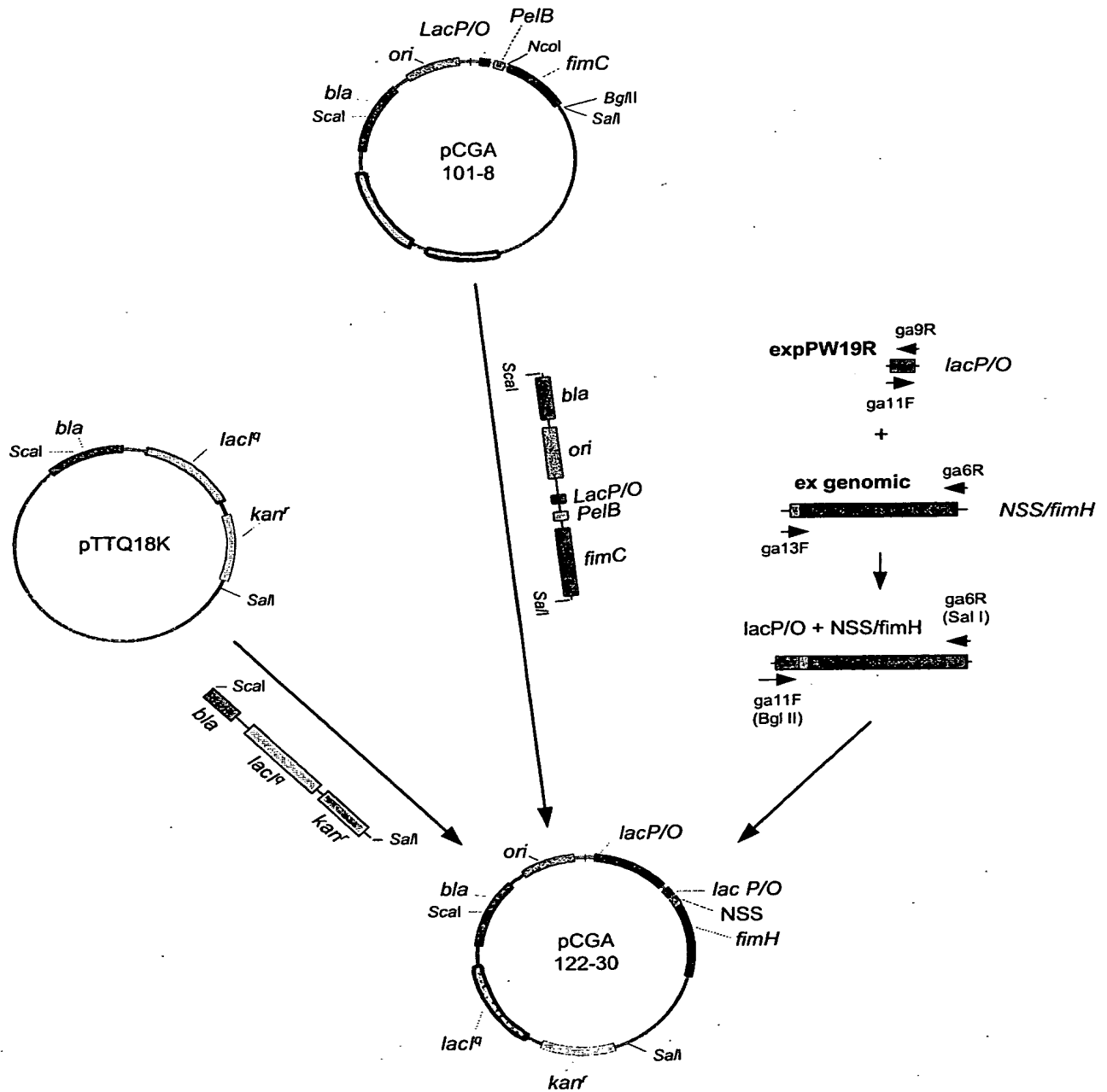
		251	279
B210.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B212.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B217.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B223.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B228.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B238.aa	(251)	GLTANYARTGGQVTAGNVQSIIGATFVYQ	
B240.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
B242.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
DS17.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC42.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC45.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC56.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC58.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC60.aa	(251)	GLTANYARTGGQVTAGNVRSIIAVTFVYQ	
EC61.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC62.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC80.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC89.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
EC95.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
G189.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
J96.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
NU14.aa	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	
Consensus	(251)	GLTANYARTGGQVTAGNVQSIIGVTFVYQ	

Fig. 3

Step1: Construction of pCGA101-8



## Step 2: Construction of pCGA122-30



### Step 3: Selection of final clone

Fig 5.

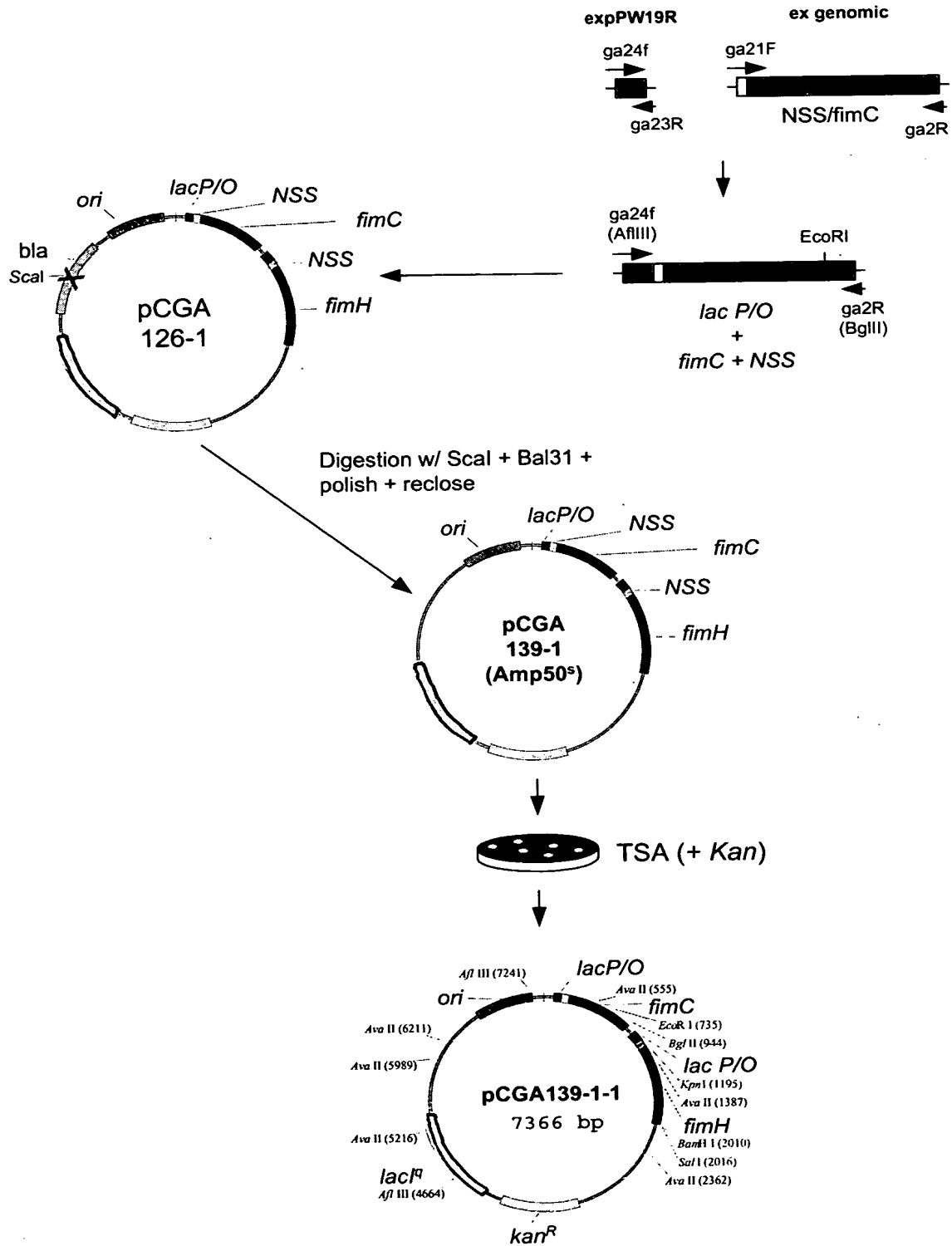




Fig. 6

